



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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mc 12-16-86
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Applicant: Jerome H. Lemelson Art Unit: 112
Serial No: 712,411 Examiner: Howard Williams
Filed: March 15, 1985 October 31, 1986
For: CHEMICAL REACTION
APPARATUS AND METHOD

L. Richardson
2-5-87

AMENDMENT UNDER RULE 312

Hon. Commissioner of Patents
and Trademarks

Washington, D.C. 20231

Sir:

This amendment is made in response to the Final Action and the request therein that applicant review the specification and claims for errors and amend same to correct such errors to place the instant application in better condition for allowance.

In reviewing the instant application, applicant also reviewed the claims to determine if they contain any additional errors and properly define the instant invention. As a result of such review, applicant believes that certain amendments to independent method claim 17 would provide such claim more definite and in better condition for issuance, without materially changing the scope of such claim. Claim 20 is found to also require a number of amendments to improve its form and correct two errors or deficiencies in grammar, without changing the scope of the claim and requiring reconsideration by the Examiner of a type which would not permit such amending to be made at this time. Accordingly, please amend claims 17 and 20 as follows:

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Post as First Class Matter in an envelope addressed to Commissioner of Patents and Trademarks Washington, D.C. 20231

ON OCTOBER 31, 1986

JEROME H. LEMELSON

BY: [Signature] DATE: 10/31/86

17. (Amended) A method [of] for creating a chemical reaction comprising:

(a) generating a beam of collimated radiation having sufficient intensity and energy for effecting a chemical reaction with respect to [particles of] matter when said beam is caused to intersect said [particles] matter and directing said beam along a select path,

(b) controllably flowing a stream of fluent material containing particles of matter along at least a portion of the select path along which said beam is directed, such that radiation of said beam will be transferred to particles of said matter during a substantial portion of the travel of said particles along said select path, and

(c) causing radiation of said collimated beam to react on said particles in said stream as said particles travel said select path and to change the state of said particles and cause said particles to partake in a chemical reaction.

20. (Amended) A method in accordance with claim 17 wherein said radiation beam is directed through the center of said stream, said beam is deflected to scan within said stream and said beam and the fluent material of said stream are directed against the surface of a solid material and are caused to react with at least a portion of said solid material.

IN THE SPECIFICATION

Please amend the specification as follows:

Page 1
Line 6

The numerical notations should respectively be --
05/710,518 -- and -- 3/5/68 --.

Line 7

The date numerical notation should be -- 10/22/65 --.